



**The Gambia
Standards Bureau**

*CATALOGUE OF
THE GAMBIA STANDARDS BUREAU
2022*



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Standards Bureau**

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THE GAMBIA STANDARDS BUREAU
2022***

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INTRODUCTION

The Gambia Standards Bureau was established by an Act of Parliament in 2010 (TGSB Act 2010). The primary role of the Bureau according to the Act is to develop and publish national standards in all sectors of the country's economy. The Bureau is also mandated to provide conformity assessment and metrology services. In 2014, the Ministry of Trade, Industry, Regional Integration and Employment appointed the Bureau as the WTO TBT Enquiry Point for The Gambia.

VISION STATEMENT

Be the leading standardization institution in promoting industrial growth and consumer welfare.

MISSION STATEMENT

To standardize goods, services and systems in accordance with internationally-recognized procedures to enhance industrial growth and efficiency, facilitate trade, promote health, safety and environmental protection.

STANDARDS DEVELOPMENT PROCEDURE

The procedures for developing national standards comprise the following 4 activities:

- Initiation of the project;
- Justification of the project and assignment of priorities;
- Development of the standards;
- Approval of the Standards.

GUIDING PRINCIPLES AND VALUES

In the delivery of its mandate and fulfillment of its strategic vision, The Gambia Standards Bureau adheres to the following principles and values.

Principle 1: Standards development will be driven by the needs of stakeholders and Gambian Standards will only be produced where appropriate.

Principle 2: Standards development will follow internationally-recognized procedures for the preparation, adoption and application of standards.

Principle 3: TGSB shall be informed by internationally-recognized good practices to resolve the conflicts of interest foreseeable in its programmes and activities.

Principle 4: For TGSB to be successful and continue to be relevant as facilitator to industry and trade, it should not mix any regulatory functions in its portfolio.

Principle 5: TGSB follows core values of transparency, integrity, inclusiveness and consensus-building.

OBJECTIVES

1. TGSB develops the required capacity to satisfy the priority needs of the country in relation to its mandate.
2. TGSB ensures continuous provision of Standardization, Metrology and Conformity Assessment services tailored to meet the needs of its customers.
3. TGSB engages national and international stakeholders to build strong partnerships and contribute to international standardization work.
4. Institutionalize robust and internationally-recognized processes and procedures to ensure the production of acceptable deliverables.
5. Promote the development of the national quality infrastructure and quality culture by improving awareness, information dissemination and providing training
6. To manage the operations of the Bureau to ensure continuous financial viability.

AUTHORITY'S SERVICES/ ACTIVITIES

TGSB offers a wide variety of services and activities categorized as follows:

- Sale of Standards (National and International)
- Standards Development
- Calibration, verification and inspection of weighing and measuring devices.
- Inspection of Products
- Product Certification
- System Certification

SALE OF STANDARDS

Local and International Standards are sold to interested manufacturers, exporters and importers to enable their Products and Services Conform to the relevant Specification for favorable competition on the local and international markets. Local and International Standards can be obtained at the Gambia Standards Bureau’s Documentation and Information Center.

NOTE: GAMS IEC standards listed in the catalogue would be ordered for clients on request.

| CODE | NO. OF PAGES | CURRENT PRICE (GMD) |
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| National Electrical wiring standards | — | 450.00 |
| Management System Standards | — | 1000.00 |

The Gambia Standards Bureau also offers

E-Sale of Gambian Standards where clients can request for Standards and make payment into TGSB’s bank account via bank transfer and receive watermarked PDF versions of the Standards requested. Also available on our website (www.tgsb.gm)

LIST OF ABBREVIATIONS

| | |
|------------------------|---|
| GAMS | Gambian Standard |
| GAMS CODEX STAN | Adopted Codex Standards |
| GAMS CAC/RCP | Adopted Codex Recommended Code of Practice |
| GAMS IEC | Adopted International Electro Technical Commission (IEC) Standards |
| GAMS ISO | Adopted International Organization for Standardization (ISO) Standards |
| GAMS OIML | Adopted International Organization of Legal Metrology (OIML) Standards |
| GAMS JCGM | Adopted Joint Committee for Guides in Metrology standards |
| GAMS ASTM | Adopted American Society for Testing and Materials standards |
| GAMS OIC/SMIC | Adopted Standards and Metrology Institute for Islamic Countries standards |
| OIC | Organization of Islamic Cooperation |
| ICS | International Classification of Standards |



The Gambia
Standards Bureau

THE TGSB STANDARDS CATALOGUE

The TGSB Standards Catalogue is a register of National Standards found on the TGSB website which have been listed in categories. TGSB publishes the main Standards Catalogue once a year and publishes supplementary copies to the main catalogue periodically. The Catalogue provides you with a list of Current Standards and Standards under review.

| | | | | | | | |
|-------|-----|--|-----|--|-----------------|----------|--|
| | (A) | (B) | (C) | | (D) | (G) | |
| | ↓ | ↓ | ↓ | | ↓ | ↓ | |
| | 1 | GAMS ISO 9000: 2005 | | | ICS : 03.120.10 | Pages 37 | |
| (E) ← | | Quality Management System – Fundamentals and Vocabulary | | | | | |
| (F) ← | | This standard describes fundamentals of quality management systems, which form the subject of the GAMS ISO 9000 family, and defines related terms. | | | | | |
| | | <hr/> | | | | | |
| | | | | | | | |

A – Serial Number

B – Standard Number

C – Year of Publication

D – ICS Number - International Classification of Standards

E – Standard Title

F – Scope

G – Number of Pages

INTERNATIONAL CLASSIFICATION FOR STANDARDS (ICS)

01 GENERALITIES. TERMINOLOGY.
STANDARDIZATION. DOCUMENTATION
03 SERVICES. COMPANY
ORGANIZATION
MANAGEMENT AND QUALITY.
SOCIOLOGY.
ADMINISTRATION. TRANSPORT
07 MATHEMATICS. NATURAL SCIENCES
11 HEALTH CARE TECHNOLOGY
13 ENVIRONMENT. HEALTH
PROTECTION.
SAFETY
17 METROLOGY AND MEASUREMENT.
PHYSICAL PHENOMENA
19 TESTING
21 MECHANICAL SYSTEMS AND
COMPONENTS FOR GENERAL USE
23 FLUID SYSTEMS AND COMPONENTS
FOR
GENERAL USE
25 MANUFACTURING ENGINEERING
27 ENERGY AND HEAT TRANSFER
ENGINEERING
29 ELECTRICAL ENGINEERING

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VIDEO ENGINEERING
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GOODS
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BUILDING
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49 AIRCRAFT AND SPACE VEHICLE

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Standardization. Documentation

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(Vocabularies)

01.040.25 Manufacturing engineering

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01.140 Information Sciences. Publishing

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ADMINISTRATION. TRANSPORT

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ovens

97.040.30 Domestic refrigerating appliances

97.040.50 Small kitchen appliances

97.040.60 Cookware, cutlery and flatware

97.060 Laundry appliances

97.100 heating appliances

97.140 Furniture

97.145 Ladders

97.170 Body care equipment

97.180 Miscellaneous domestic and

97.190 Equipment for children

97.195 Items of art and handicrafts

97.200 Equipment for entertainment

97.200.40

97.200.50 Toys

The Gambia
Standards Bureau

TGSB CATALOGUE 2022

1. MANAGEMENT STANDARDS

1. GAMS ISO 9000: 2005

ICS : 03.120.10

Pages 37

Quality Management System – Fundamentals and Vocabulary

This standard describes fundamentals of quality management systems, which form the subject of the GAMS ISO 9000 family, and defines related terms.

2. GAMS ISO 9001:2015

ICS : 03.120.10

Pages 41

Quality Management Systems - Requirements

This Standard specifies requirements for a quality management system when an organization: a) needs to demonstrate its ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements, and b) aims to enhance customer satisfaction through the effective application of the system, including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements. All the requirements of this International Standard are generic and are intended to be applicable to any organization, regardless of its type or size, or the products and services it provides.

3. GAMS ISO 9004: 2009

ICS : 03.120.10

Pages 55

Managing for a Sustained Success of an Organization. A Quality Management Approach

This Standard provides guidance to organizations to support the achievement of sustained success by a quality management approach. It is applicable to any organization, regardless of size, type and activity.

4. GAMS ISO 19011: 2011

ICS : 03.120.10

Pages 51

Guidelines for Auditing Management Systems

This Standard provides guidance on auditing management systems, including the principles of auditing, managing an audit programme and conducting management system audits, as well as guidance on the evaluation of competence of individuals involved in the audit process, including the person managing the audit programme, auditors and audit teams

5. GAMS ISO 14001: 2004

ICS : 13.020.10, 03.100.70

Pages 33

Environmental Management System - Requirements with Guidance for Use

This Standard specifies requirements for an environmental management system to enable an organization to develop and implement a policy and objectives which take into account legal requirements and other requirements to which the organization subscribes, and information about significant environmental aspects. It applies to those environmental aspects that the organization identifies as those which it can control and those which it can influence. It does not itself state specific environmental performance criteria.

6. GAMS ISO 22000: 2005

ICS : 67.020, 03.100.70

Pages 41

Food Safety Management System - Requirements for any Organization in The Food Chain

This International Standard specifies requirements for a food safety management system where an organization in the food chain needs to demonstrate its ability to control food safety hazards in order to ensure that food is safe at the time of human consumption. It is applicable to all organizations, regardless of size, which are involved in any aspect of the food chain and want to implement systems that consistently provide safe products. The means of meeting any requirements of this International Standard can be accomplished through the use of internal and/or external resources

7. GAMS ISO 50001: 2011

ICS : 27.015, 03.100.70

Pages 29

Energy Management System -- Requirements with Guidance for Use

This Standard specifies requirements for establishing, implementing, maintaining and improving an energy management system, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption. This Standard specifies requirements applicable to energy use and consumption, including measurement, documentation and reporting, design and procurement practices for equipment, systems, processes and personnel that contribute to energy performance.

8. GAMS ISO/IEC 27001: 2005**ICS : 35.030, 03.100.70 Pages 41****Information Technology - Security Techniques - Information Security Management Systems - Requirements**

This International Standard covers all types of organizations (e.g. commercial enterprises, government agencies, non-profit organizations). This International Standard specifies the requirements for establishing, implementing, operating, monitoring, reviewing, maintaining and improving a documented ISMS within the context of the organization's overall business risks. It specifies requirements for the implementation of security controls customized to the needs of individual organizations or parts thereof.

9. GAMS ISO/IEC 17025: 2005**ICS : 03.120.20 Pages 35****General Requirements for the Competence of Testing and Calibration Laboratories**

This Standard specifies the general requirements for the competence to carry out tests and/or calibrations, including sampling. It covers testing and calibration performed using standard methods, non-standard methods, and laboratory-developed methods. This Standard is applicable to all organizations performing tests and/or calibrations. These include, for example, first-, second- and third-party laboratories, and laboratories where testing and/or calibration forms part of inspection and product certification. The notes given provide clarification of the text, examples and guidance. They do not contain requirements and do not form an integral part of this Standard.

10. GAMS ISO/IEC 17020: 2012**ICS : 03.120.20 Pages 26****Requirements for the Operation of Various Types of Bodies Performing Inspection**

This International Standard contains requirements for the competence of bodies performing inspection and for the impartiality and consistency of their inspection activities. It applies to inspection bodies of type A, B or C, as defined in this International Standard, and it applies to any stage of inspection

2. FOOD STANDARDS

1. GAMS CODEX STAN 198-1995

ICS : 67.06 Pages 9

Gambian Standard for Rice

This standard applies to husked rice, milled rice, and parboiled rice, all for direct human consumption; i.e., ready for its intended use as human food, presented in packaged form or sold loose from the package directly to the consumer. It does not apply to other products derived from rice or to glutinous rice.

2. GAMS CODEX STAN 212-1999

ICS : 67.180.10 Pages 9

Gambian Standard for Sugar

This Standard applies to the following sugars: White sugar, Plantation or mill white sugar, Powdered sugar (icing sugar), Soft white sugar, soft brown sugar, Dextrose anhydrous, Dextrose monohydrate, Powdered dextrose (icing dextrose), Glucose syrup, Dried glucose syrup, Dried glucose syrup, Lactose, Fructose (laevulose), Raw cane sugar, intended for human consumption without further processing (synonyms are in round brackets). It includes sugars sold directly to the final consumer and sugars used as ingredients in foodstuffs.

3. GAMS CAC/RCP 1-1969

ICS : 67.020. Pages 34

Gambian Standard on General Principles of Food Hygiene

This document follows the food chain from primary production to the final consumer, setting out the necessary hygiene conditions for producing food which is safe and suitable for consumption. The document provides a base-line structure for other, more specific, codes applicable to particular sectors. Such specific codes and guidelines should be read in conjunction with this document and Hazard Analysis and Critical Control Point (HACCP) System and Guidelines for its Application

4. GAMS CODEX STAN 227-2001 (WITHDRAWN)

ICS : 13.060.20 Pages 8

Gambian Standard for bottled- packaged Drinking water

This Standard applies to waters for drinking purposes other than Natural Mineral Waters, as defined in the revised CODEX STAN 108-1981, that prepackaged /bottled and are suitable for human consumption

5. GAMS CODEX STAN 108-1981

ICS : 13.060.20 Pages 4

Gambian Standard for Natural Mineral Water

This standard applies to all packaged natural mineral waters offered for sale as food. It does not apply to natural mineral waters sold or used for other purposes.

6. GAMS CODEX STAN 1-1985

ICS : 67.230. Pages 14

Gambian Standard for the Labeling of Prepackaged Food

This standard applies to the labeling of all prepackaged foods to be offered as such to the consumer or for catering purposes and to certain aspects relating to the presentation thereof.

7. GAMS CODEX STAN 200-1995

ICS : 67.080.10 Pages 9

Gambian Standard for Peanuts (Groundnuts)

This standard applies to peanuts, either in the pod or in the form of kernels, intended for processing for direct human consumption.

8. GAMS CODEX STAN 57-1981

ICS : 67.080.20 Pages 9

Gambian Standard for Processed Tomato Concentrate

This Standard applies to processed tomato concentrate offered for direct consumption, including for catering purposes or for repacking if required. This Standard also applies to the product when indicated as being intended for further processing.

9. GAMS CODEX STAN 152-1985

ICS : 67.060.00 Pages 7

Gambian Standard for Wheat Flour

This standard applies to wheat flour for direct human consumption prepared from common wheat, *Triticum aestivum* L., or club wheat, *Triticum compactum* Host., or mixtures thereof, which is prepackaged ready for sale to the consumer or destined for use in other food products.

10. GAMS CODEX STAN 19-1981

ICS : 67.200.10

Pages 8

Gambian Standard for Edible Fats and Oil

This Standard applies to oils and fats and mixtures thereof in a state for human consumption. It includes oils and fats that have been subjected to processes of modification (such as trans-esterification or hydrogenation) or fractionation.

11. GAMS CAC/RCP 55 – 2004

ICS : 67.080.10

Pages 13

Gambian Standard on the Code of Good Practice for the Prevention and Reduction of Aflatoxin Contamination in Peanuts

This document is intended to provide guidance for all interested parties producing and handling peanuts for entry into international trade for human consumption. All peanuts should be prepared and handled in accordance with the Recommended International Code of Practice – General Principles of Food Hygiene¹, which are relevant for all foods being prepared for human consumption. These codes of practice indicate the measures that should be implemented by all persons that have the responsibility for assuring that food is safe and suitable for consumption

12. GAMS 1 – 2015

ICS : 67.080.10

Pages 16

Gambian Standard for Cashew Kernels

This standard applies to cashew kernels obtained by heating, shelling and peeling the true fruits of the cashew tree (*Anacardium occidentale* Linneaus)

13. GAMS CAC/RCP 58 – 2005

ICS : 67.120.10

Pages 74

Gambian Standard on the Code of Hygienic Practices for Meat

The scope of this code covers hygiene provisions for raw meat, meat preparations and manufactured meat from the time of live animal production up to the point of retail sale

14. GAMS CODEX STAN 311 – 2013**ICS : 67.120.30****Pages 20****Gambian Standard for Smoked Fish, Smoke-Flavoured Fish and Smoke-Dried Fish**

This standard applies to smoked, smoke-flavoured and smoke-dried fish prepared from fresh, chilled or frozen raw material. It deals with whole fish, fillets and sliced and similar products thereof. The standard applies to fish, either for direct consumption, for further processing, or for addition into specialty or minced products where fish constitutes only part of the edible contents. It does not apply to fish treated with carbon monoxide (filtered, “clear” or ‘tasteless’ smoke), fish packaged in hermetically sealed containers processed to commercial sterility. Specialty or minced products as such are not included.

15. GAMS CAC/RCP 15 – 1976**ICS : 67.020.00****Pages 28****Gambian Standard on the Code of Hygienic Practice for Eggs and Egg Products**

This Code applies to the primary production, sorting, grading, storing, transport, processing, and distribution of eggs in shell and egg products of such eggs produced by domesticated birds and intended for human consumption.

16. GAMS CODEX STAN 210 – 1999**ICS : 67.200.10****Pages 16****Gambian Standard for Sesame Seed Oil**

This Standard applies to the Sesame seed oils (sesame oil, gingelly oil, benne oil, ben oil, till oil, tillie oil) presented in a state for human consumption.

17. GAMS 2- 2015**ICS : 67.080.10****Pages 8****Gambian Standard for Peanut Butter**

This Standard prescribes the requirements and methods of test for peanut butter.

18. GAMS CODEXSTAN 150 – 1985**ICS : 67.220.20****Pages 9****Gambian Standard for Food Grade Salt**

This standard applies to salt used as an ingredient of food, both for direct sale to the consumer and for food manufacture. It applies also to salt used as a carrier of food additives and/or nutrients

19. GAMS CAC/RCP 44-1995

ICS : 55.020 Pages 15

Code of Practice for Packaging and Transport of Fresh Fruit and Vegetable

This code recommends proper packaging and transport of fresh fruit and vegetables in order to maintain produce quality during transportation and marketing.

20. GAMS/CODEX STAN 12 – 1981

ICS : 67.180.10 Pages 13

Gambian Standard for Honey

1. Part One of this Standard applies to all honeys produced by honey bees and covers all styles of honey presentations which are processed and ultimately intended for direct consumption. Part Two covers honey for industrial uses or as an ingredient in other foods
 2. Parts Two of this Standard also covers honey which is packed for sale in bulk containers, which may be repacked into retail packs.
-

21. GAMS/CODEX STAN 153 – 1985

ICS : 67.060.00 Pages 6

Gambian Standards for Maize Grains

This standard applies to maize (corn) for human consumption, i.e., ready for its intended use as human food, presented in packaged form or sold loose from the package directly to the consumer. This standard specifies requirements for whole grain shelled dent maize, *Zea mays indentata* L., and/or shelled flint maize, *Zea mays indurata* L., or their hybrids. It does not apply to processed maize.

22. GAMS/CODEX STAN 154 – 1985

ICS : 67.060.00 Pages 6

Gambian Standard for Whole Maize (corn) Meal

1. This standard applies to whole maize (corn) meal for direct human consumption prepared from kernels of common maize, *Zea mays*
 2. This standard does not apply to degermed maize (corn) meal, enriched maize (corn) meal, maize (corn) flours, maize (corn) grits, quick grits, hominy grits, self-rising maize (corn) meals, bolted maize (corn) meals, maize (corn) flakes and other maize (corn) based ready-to-eat cereals, maize (corn) flaking grits, and alkaline treated maize (corn) products.
 3. This standard does not apply to maize meals for use as a brewing adjunct, to maize meals used for manufacturing of starch and any industrial use, nor to maize meal for use as an animal feed.
-

23. GAMS/CODEX STAN 155 – 1985

ICS : 67.220.20 Pages 6

Gambian Standard for Degermed Maize Meal and Maize Grits

1. This standard applies to degermed maize (corn) meal and to degermed maize (corn) grits for direct human consumption milled from kernels of common maize, *Zea mays* L.;
2. This standard does not apply to whole maize (corn) meal, maize (corn) flours, quick grits, hominy grits, self-rising maize (corn) meals, enriched maize (corn) meals, enriched maize (corn) grits, bolted maize (corn) meals, maize (corn) flakes, and alkaline treated maize (corn) products.;
3. This standard does not apply to maize (corn) meals for use as a brewing adjunct, to maize (corn) meals used for manufacturing of starch and any industrial use, nor to maize (corn) meal for use as an animal feed

24. GAMS/CODEX STAN 190 -1995

ICS : 67.120.30 Pages 10

Gambian Standard for Quick Frozen Fish Fillets

This standard applies to quick frozen fillets of fish as defined below and offered for direct consumption without further processing. It does not apply to products indicated as intended for further processing or for other industrial purposes

25. GAMS/CODEX STAN 92 – 1981

ICS : 67.120.30 Pages 12

Gambian Standard for Shrimps and Prawns

This standard applies to quick frozen raw or partially or fully cooked shrimps or prawns¹, peeled or unpeeled

26. GAMS 4 – 2016

ICS : 67.080.20 Pages 15

Gambian Standard for Fresh Potato Tuber - Specification

This standard specifies the requirements for early and ware potato tuber of varieties (cultivars) grown from (*Solanum tuberosum* L.) and its hybrids, to be supplied fresh to the consumer, and either packaged or sold loose for human consumption. It does not cover the requirements for potato tubers intended for industrial processing or seed potato tuber.

27. GAMS 18:2018

ICS : 67.060.00 Pages 10

Standard for Fortified Wheat Flour

This standard applies to wheat flour for direct human consumption prepared from common wheat, *Triticum aestivum* L., or club wheat, *Triticum compactum* Host., or mixtures thereof, which is prepackaged ready for sale to the consumer or destined for use in it

28. GAMS 19: 2018

ICS : 67.200.10 Pages 13

Fortified Edible Oils and Fats — Specification

This Draft Gambian Standard specifies the requirements and methods of sampling and test for fortified edible oils and fats intended for human consumption. It does not apply to any oil or fat which is covered by one of the following:

the Codex Standard for Named Animal Fats;

the Codex Standard for Named Vegetable Oils;

the Codex Standard for Olive Oils and Olive-pomace Oils

the codex standard for fish oils

29. GAMS 20: 2018

ICS : 67.220.20 Pages 13

Standard for Iodized Salt

The scope of this code covers hygiene provisions for raw meat, meat preparations and manufactured meat from the time of live animal production up to the point of retail sale

30. GAMS 26:

ICS : 67.020, 03.100.70 Pages 28

Requirements for a Hazard Analysis and Critical Control Points (HACCP) System (draft)

This Gambian standard contains the requirements for the development, implementation and maintenance of a HACCP system as a preventive system to enhance the safety of the food.

31. GAMS 21:

Pages 23

Bread – Specification (draft)

This Gambian standard prescribes the requirements and methods of test for white bread (“senfourr”, “tappa-lappa”, “tappa-lappa senfourr”), whole meal bread and enriched bread.

32. GAMS 23:

ICS : 03.100.70

Pages 27

Gambian Standard on Good Hygienic Practices (draft)

This standard specifies requirements for establishing, implementing and maintaining good hygienic practices in food establishments to assist in controlling food safety hazards.

This standard specifies detailed requirements to be specifically considered in relation to:

- a) Construction and layout of buildings and associated utilities;
- b) Layout of premises, including workspace and employee facilities;
- c) Supplies of air, water, energy and other utilities;
- d) Supporting services including waste and sewage disposal;
- e) Suitability of equipment and its accessibility for cleaning, maintenance and preventive maintenance;
- f) Management of purchased materials;
- g) Measures for the prevention of cross-contamination;
- h) Cleaning and sanitizing;
- i) Pest control;
- j) Personnel hygiene;
- k) Packaging;
- l) Rework;
- m) Product traceability and recall procedures;
- n) Warehousing;
- o) Product information and consumer awareness;
- p) Documented information.

33. GAMS/ISO 7301:2011

ICS: 67.060

Pages 25

Rice - Specification (draft)

This Gambian standard gives the minimum specifications for rice (*oryza sativa* L.) which is subject to national and international trade. It is applicable to the following types; husked rice, milled rice, parboiled or not, intended for direct human consumption. It is neither applicable to other products derived from rice, nor to waxy rice (glutinous rice).

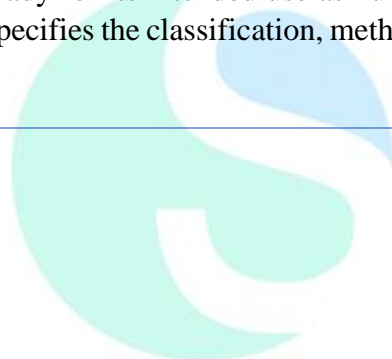
34. GAMS 26:

ICS: 67.060

Pages 15

Specification for Rice Grains (draft)

The Gambian standard specifies requirements for husked, milled and parboiled rice (*oryza sativa* L. species) for human consumption i.e., ready for its intended use as human food presented in packaged form or solid loose from the package directly to the consumer. It also specifies the classification, methods of sampling and test for rice. It does not apply to other products derived from rice or to glutinous rice.



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3. BUILDING CONSTRUCTION AND CIVIL ENGINEERING

1. GAMS ASTM A184/A184M:2011

ICS : 77.140.15

Pages 3

Standard Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement

This specification covers material in mat (or sheet) form fabricated from deformed steel bars to be used for the reinforcement of concrete. This specification is applicable for orders in either inch-pound units (as Specification A184) or SI units (as Specification A184M).

2. GAMS ASTM A615/A615M:2016

ICS : 77.140.15

Pages 8

Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement1

This specification covers deformed and plain carbon- steel bars in cut lengths and coils for concrete reinforcement. Steel bars containing alloy additions, such as with the Association for Iron and Steel Technology and the Society of Automotive Engineers series of alloy steels, are permitted if the resulting product meets all the other requirements of this specification.

3. GAMS ASTM A704/A704M:2011

ICS : 77.140.15

Pages

3

Standard Specification for Welded Steel Plain Bar or Rod Mats for Concrete Reinforcement1

This specification covers material in mat (or sheet) form fabricated from hot-rolled, plain steel bars or rods to be used for the reinforcement of concrete. This specification is applicable for orders in either inch-pound units (as A704) or in SI units [as A704M].

4. GAMS ASTM C33/C33M:2016

ICS : 91.100.30

Pages 11

Standard Specification for Concrete Aggregates1

This specification defines the requirements for grading and quality of fine and coarse aggregate (other than lightweight or heavyweight aggregate) for use in concrete. This specification is also for use in project specifications to define the quality of aggregate, the nominal maximum size of the aggregate, and other specific grading requirements.

5. GAMS ASTM C150/C150M:2016

ICS : 91.100.10 Pages 10

Standard Specification for Portland Cement1

This specification covers ten types of Portland cement, as follows :Type I—For use when the special properties specified for any other type are not required, Type IA—Air-entraining cement ,Type I, where air-entrainment is desired, Type II—For general use, more especially when moderate sulfate resistance is desired, Type IIA—Air-entraining cement for the same uses as, Type II, where air-entrainment is desired, Type II(MH)—For general use, more especially when moderate heat of hydration and moderate sulfate resistance are desired, Type II(MH)A—Air-entraining cement for the same uses as Type II(MH), where air-entrainment is desired, Type III—For use when high early strength is desired, Type IIIA—Air-entraining cement for the same use as, Type III, where air-entrainment is desired, Type IV—For use when a low heat of hydration is desired and Type V—For use when high sulfate resistance is desired.

6. GAMS ASTM C1157/C1157M:2011

ICS : 91.100.10 Pages 10

Standard Performance Specification for Hydraulic Cement1

This performance specification covers hydraulic ce- ments for both general and special applications. There are no restrictions on the composition of the cement or its constituents. This performance specification classifies cements based on specific requirements for general use, high early strength, resistance to attack by sulfates, and heat of hydration. Optional requirements are provided for the property of low reactivity with alkali-silica-reactive aggregates and for air-entraining cements.

7. GAMS 9:2017

ICS : 77.140.50 Pages 24

Specification for Hot-dipped Zinc-coated or Aluminum/Zinc-coated Corrugated Steel Sheets for Building

This Gambian Standard specifies requirements for 76 mm pitch corrugated steel sheet manufactured from hot-dip zinc coated or hot-dip aluminum/zinc coated steel sheet, with minimum coating mass (in g/m²) on both sides in the flat before corrugation.

8. GAMS 10:2017

ICS : 77.150.10 Pages 17

Specification for Aluminum Roofing Sheets

This Standard specifies the minimum requirements for materials, profile, dimensions (including tolerances) and finish for profiled aluminum sheet (plain, embossed or painted) for roofing. This standard does not address fixing accessories for building purposes and code of practice for use of roofing sheet.

9. GAMS 11:2011

ICS: 91.100.10

ICS : Pages 8

Guide to Quality Sandcrete Block Manufacturing

This guide is a simplified version of the book entitled Hints on the Manufactured blocks to help Sandcrete block manufacturer to produce Sandcrete blocks of good quality.

10. GAMS 12:2017

ICS : 81.08 Pages 12

Specification for Burnt Bricks

This Standards specifies the requirements for dimensions and physical requirements of burnt clay units for solid , performance or hollow used in building and construction industry.

11. GAMS 13:2017

ICS : 91.080.30; 91.100.30* Pages 25

Specification for Blocks —Part 1- Precast Sandcrete Blocks

This Standard specifies requirements for dimensions, materials, marking, test methods and criteria for conformity for solid, hollow and cellular precast sandcrete blocks classified according to their characteristic compressive strengths and intended applications as follows:

12. GAMS 27:2020

ICS: 91.100.15 Pages 13

Compressed Earth Blocks: Standard Terminology (Draft)

The terms defined by this standard are applicable in the development of all technical administrative contractual documents related to the technology of compressed earth blocks and concerns both the public markets and private markets.

13. GAMS 28:

ICS: 91.100.15

Pages 10

Compressed Earth Blocks; Standard for Definition, Classification, and Designation of Compressed Earth Blocks (Draft)

The aim of the present standard is to define compressed earth blocks (CEB), to classify them according to their typology, their appearance, their conditions of use, and to determine the categories into which they fall as well as their designations.

14. GAMS 29: **ICS: 91.100.15** **Pages 18**

Compressed Earth Block – Code of Practice for the Production of Compressed Earth Blocks (Draft)

The rules described in this code are applicable in all production companies acceded to a system of qualification of their activity from an approved body.

15. GAMS 30: **ICS: 91.100.15** **Pages 11**

Compressed Earth Blocks – Classification Standard for Identification Tests of Materials and Mechanical Tests (Draft)

The tests apply to materials, equipment, items and components of compressed earth block (CEB) technology.

16. GAMS 31: **ICS: 91.100.15** **Pages 09**

Compressed Earth Blocks – Technical Specifications for Facing Compressed Earth Blocks (Draft)

The aim of the present standard is to define the requirements applicable to facing compressed earth blocks (CEBF).

17. GAMS 32: **ICS: 91.100.15** **Pages 17**

Compressed Earth Blocks: Code of Practice for the Preparation of Soil Mortars (Draft)

The rules described in this code are applicable in all construction companies acceded to a system of qualification of their activity from an approved body.

18. GAMS 33: **ICS: 91.040.10** **Pages 28**

Compressed Earth Blocks: Code of Practice for Masonry in Masonry (Draft)

The rules described in this code are applicable in all companies and individuals indented to use compressed earth blocks masonry in building construction masonry.

4. METROLOGY STANDARDS

1. GAMS ISO 835:2007

ICS17.060. Pages12

Laboratory Glassware - Graduated Pipettes

This International Standard specifies metrological and constructional requirements for graduated pipettes, adequate for general laboratory purposes.

2. GAMS ISO 8655-2:2002

ICS17.060. Pages11

Piston Operated Volumetric Apparatus - Piston Pipettes

This part of ISO 8655 specifies

- metrological requirements,
- maximum permissible errors,
- requirements for marking and
- information to be provided for users,

for air-displacement (type A) and positive-displacement (type D) single-channel and multi-channel piston pipettes, complete with their selected tip(s) and any other essential, consumable parts, designed to deliver their specified nominal volume (Ex).

3. GAMS OIML R 7-e79

ICS17.060. Pages13

Clinical Thermometers (mercury-in-glass, with maximum device)

The provisions of this Recommendation apply to those thermometers called "clinical thermometers", of the mercury-in-glass type, with a maximum device, intended for measurement of the internal human body temperature.

This Recommendation does not apply to special purpose thermometers (thermometers for premature babies, ovulation thermometers), which owing to their measurement range, scale interval or maximum permissible error, do not meet the following requirements.

4. GAMS OIML R 34-e79

ICS17.060. Pages17

Accuracy Classes of Measuring Instruments

This Recommendation lays down the principles for the classification of measuring instruments according to their accuracy.

The measuring instruments to which this Recommendation applies are :

- material measures,
- measuring instruments,
- measuring transducers,

where these instruments are intended for use in conditions in which errors due to inertia are negligible in relation to the maximum errors laid down for them.

5. GAMS OIML R 47-e79

ICS17.060. Pages12

Standard Weights for Testing of High Capacity Weighing Machines

This Recommendation applies to standard weights having a nominal value equal to or greater than 50 kg, used for testing of high capacity weighing machines in accuracy classes III (medium) and IIII (ordinary), which are defined in International Recommendation n° 3 : Metrological regulations for non-automatic weighing machines

6. GAMS OIML R 59-e84

ICS17.060. Pages40

Moisture Meters for Cereal Grain and Oilseeds

This Recommendation deals with moisture meters for cereal grains and oilseeds, that is to say instruments measuring and indicating, either directly or by means of conversion tables and (or) correction tables, the moisture content of cereal grains and the moisture and volatile matter content of oilseeds.

7. GAMS OIML R 66-e85

ICS17.060. Pages12

Length Measuring Instruments

This Recommendation applies to length measuring instruments which determine the length of a line, wire, cable, tape, piece of cloth, strip, sheet or any other developable piece.

This Recommendation does not apply to measuring devices fitted on motor vehicles nor to instruments which can be fitted on motor vehicles for the verification of taximeters or chronotachographs, but it applies to manual instruments for measuring the length of tracks or roads.

8. GAMS OIML R 76-1-e06

ICS17.100. Pages144

Non-Automatic Weighing Instruments

This Recommendation specifies the metrological and technical requirements for non-automatic weighing instruments that are subject to official metrological control. It is intended to provide standardized requirements and testing procedures to evaluate the metrological and technical characteristics in a uniform and traceable way.

9. GAMS OIML R111-1-e04

ICS17.100. Pages80

Weights of Classes E1, E2, F1, F2, M1, M1–2, M2, M2–3 and M3

- Metrological and Technical Requirements

This Recommendation contains technical (e.g. principal physical characteristics) and metrological requirements for weights used:• As standards for the verification of weighing instruments;• As standards for the verification or calibration of weights of a lower accuracy class;• With weighing instruments

10. GAMS JCGM 200:2012

ICS01.040.17 Pages108

International Vocabulary of Metrology – Basic and General Concepts and Associated Terms (VIM). 3rd Edition

In this Vocabulary, a set of definitions and associated terms is given for a system of basic and general concepts used in metrology, together with concept diagrams to demonstrate their relations.

This Vocabulary is meant to be a common reference for scientists and engineers — including physicists, chemists, medical scientists — as well as for both teachers and practitioners involved in planning or performing measurements, irrespective of the level of measurement uncertainty and irrespective of the field of application. It is also meant to be a reference for governmental and intergovernmental bodies, trade associations, accreditation bodies, regulators, and professional societies.

5. HALAL STANDARDS

1. GAMS/OIC/SMIIC 1: 2011 (WITHDRAWN, GAMS/OIC/SMIIC 1: 2019)

ICS 67.020. Pages 20

Gambian Standard on General Guidelines on Halal Food

This standard defines the basic requirements that shall be followed at any stage of food chain including, receiving, preparation, processing, sorting, determination, packaging, labeling, marking, controlling, handling, transportation, distribution, storage and service of halal food and its products based on Islamic rules.

2. GAMS/OIC/SMIIC 2: 2011 (WITHDRAWN, GAMS/OIC/SMIIC 2: 2019)

ICS 67.020. Pages 25

Gambian standard on Guidelines for Bodies Providing Halal Certification

The guidelines specify the rules that the halal certification bodies shall satisfy and the requirements for the execution of halal certification activities.

3. GAMS/OIC/SMIIC 3: 2011

ICS67.020. Pages 24

Gambian Standard on Guidelines for the Halal Accreditation Body Accrediting Halal Certification Bodies

The guidelines prescribe general guidance and procedures for the halal accreditation body assessing and accrediting halal certification bodies (HCBs). It is also appropriate as a requirements document for the peer evaluation process for mutual recognition arrangements between halal accreditation bodies of OIC member states

4. GAMS/OIC/SMIIC 1: 2019

ICS: 67.020

Pages 29

Gambian Standard on General Requirements for Halal Food (draft)

This standard defines the basic requirements that shall be followed at any stage of food chain (from raw materials to final products) including the production, processing, distribution, storage and handling of a food and its ingredients, from primary production to consumption of Halal food and its products based on Islamic Rules.

All requirements of this standard are generic and are intended to be applicable to all organizations in the food chain regardless of size and complexity. This includes organizations directly involve in one or more steps of the food chain.

Requirements on the application of this standard in all organizations are contained in the standard for Halal food certification rules.

Requirements for Bodies Providing Halal Certification (draft)

- 1.1 The standard specifies the rules that the halal certification bodies shall satisfy and the requirements for the execution of halal certification activities.
- 1.2 The halal certification system used by the halal certification body may include one or more of the following, which could be coupled with production surveillance or assessment and surveillance of the supplier's management system like food safety management system (FSMS) and /or both, as described in ISO/IEC TR17026:
 - a) Type testing or examination;
 - b) Testing or inspection of samples taken from the market or from supplier's stock or from a combination of both;
 - c) Testing or inspection of every product or of a particular product, whether new or already in use;
 - d) Batch testing or inspection; and
 - e) Design appraisal.

This standard contains principles and requirements for the competence, consistency and impartiality of the audit and certification of halal product/service/process and/or management systems for bodies providing these activities.

Certification of halal products/services/ process and/or management systems (named in this standard "halal certification") is a third-party conformity assessment activity. Bodies performing this activity are therefore third-party conformity assessment bodies (named in this standard "halal certification body/bodies").

NOTE1: A halal certification body can be non-governmental or governmental

NOTE2: This OIC/SMIIC Standard can be used as a criteria document for accreditation (complying with OIC/SMIIC 3) or peer assessment or other audit processes.

6. PETROLEUM STANDARDS

1. GAMS 005:2016 (WITHDRAWN, REPLACED BY GAMS 36:) ICS : 75.160.20 Pages 8

GAS OIL – Specification

This Draft Gambian Standard specifies requirements and methods of sampling and testing for Gasoil

2. GAMS 008:2016 ICS : 75.160.20 Pages 8

HEAVY FUEL OIL (HFO) - Specification

This Draft Gambian Standard specifies requirements and methods of sampling and testing for HFO

3. GAMS 007:2016 ICS : 75.160.20 Pages 8

JET A1 - Specification

This Draft Gambian Standard specifies requirements and methods of sampling and testing for JET A1.

4. GAMS 006:2016 (WITHDRAWN, REPLACED BY GAMS 37:) ICS : 75.160.20 Pages 8

MOGAS/GASOLINE/PMS – Specification

This Draft Gambian Standard specifies requirements and methods of sampling and testing for MOGAS.

5. GAMS 36: ICS : 75.160.20 Pages 8

GAS OIL – Specification (Draft)

This Draft Gambian Standard specifies requirements and methods of sampling and testing for Gasoil

6. GAMS 37: ICS : 75.160.20 Pages 8

MOGAS/GASOLINE/PMS – Specification (Draft)

This Draft Gambian Standard specifies requirements and methods of sampling and testing for MOGAS.

7. PACKAGING STANDARDS

1. GAMS 6: 2017

ICS : 55.04 Pages 17

Packaging - Specification for Disposable Expanded Polystyrene Food Containers

This Gambian Standard specifies the requirements, methods of test and sampling of expanded polystyrene box for packaging of chilled fish for export.

2. GAMS 6: 2017

ICS : 55.04 Pages 19

Packaging - Specification for Disposable Expanded Polystyrene Food Containers

This Gambian Standard specifies the requirements, methods of sampling and test for disposable expanded polystyrene food containers which are in direct contact with food of temperature not exceeding 100°C.

3. GAMS 7: 2017

ICS : 83.140.99 Pages 17

Plastics - Polyvinyl Chloride (PVC) Bottles for Packaging Edible Oil

This Gambian Standard specifies the requirements, methods of sampling and test for PVC bottles used for packaging of edible oil.

4. GAMS ISO 8351-1: 1994

ICS : 55.08; 59.060.10 Pages 13

Packaging - Method of Specification for Sacks - Part 1: Paper Sacks

This Gambian standard specifies the general characteristics, requirements and methods of sampling and test for woven jute sacks intended for the packaging of agricultural products

5. GAMS ISO 8351-1: 1994

ICS : 55.08 Pages 10

Packaging - Method of Specification for Sacks - Part 1: Paper Sacks

This part GAMS ISO 8351 provides a checklist for the characteristics of paper sacks to be specified when ordering

6. GAMS ISO 8351-2: 1994

ICS : 55.08 Pages 9

Packaging - Method of Specification for Sacks - Part 2: Sacks made from Thermoplastic Flexible Film

This part of GAMS ISO 8351 provides a checklist for the characteristics to be specified when ordering sacks made from thermoplastic flexible film

7. GAMS ISO 23560: 2014

ICS : 83.140.99 Pages 16

Woven polypropylene sacks for bulk packaging of foodstuffs

This GAMS ISO Standard specifies the general characteristics, requirements and methods of test for woven polypropylene (PP) sacks



**The Gambia
Standards Bureau**

8. ELECTROTECHNICAL STANDARDS

1. GAMS 003: 2015

ICS:29.060.01

Pages 128

National Electrical Wiring Standard

This Standard GAMS 003 applies to the distribution of electrical energy in and around all types of dwelling houses, business premises, public buildings, factories, construction sites, kiosks, temporary installations and play grounds.

2. GAMS IEC 60228:2004

ICS:29.060.20

Pages 17

Conductors of Insulated Cables

This National Standard specifies the normal cross-sectional areas, in the range 0,5 mm to 2,500 mm, for conductors in electric power cables and cords of a wide range of types. Requirements for numbers and sizes of wires and resistance values are also included.

3. GAMS IEC 60287-1-1:2014

ICS:29.060.20

Pages 142

Electric Cables – Calculations of the Current Ratings Part 1-1: Current ratings equation (100% load factor) and calculation of losses – General

This part of GAMS IEC 60287 is applicable to the conditions of steady-state operation of cables at all alternating voltages, and direct voltages up to 5 kV, buried directly in the ground, in ducts, troughs or in steel pipes, both with and without partial drying-out of the soil, as well as cables in air.

4. GAMS IEC 60445:2006

ICS:01.080;13.110;29.020

Pages 16

Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals, conductor terminations and conductors

This National Standard applies to the identification and marking of terminals of electrical equipment such as resistors, fuses, relays, contactors, transformers, rotating machines and, wherever applicable, to combinations of such equipment (e.g., assemblies). It also applies to the identification of terminations of certain designated conductors.

5. GAMS IEC 60501-1:2006

ICS:29.060.20

Pages 114

Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2\text{kV}$) up to 30kV ($U_m = 36\text{kV}$) – Part 1: Cables for rated voltages of 1 kV ($U_m = 1,2\text{kV}$) and 3kV ($U_m = 3,6\text{kV}$)

This part of GAMS IEC 60502 specifies the construction, dimensions and test requirements of power cables with extruded solid insulation for rated voltages of 1kV ($U_m = 1,2\text{kV}$) and 3kV ($U_m = 3,6\text{kV}$) for fixed installations such as distribution networks or industrial installations.

6. GAMS IEC 60501-2:2014

ICS:29.060.20

Pages 180

Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2\text{kV}$) up to 30kV ($U_m = 36\text{kV}$) – Part 2: Cables for rated voltages from 6 kV ($U_m = 7,2\text{ kV}$) up to 30kV ($U_m = 36\text{kV}$)

This part of GAMS IEC 60502 specifies the construction, dimensions and test requirements of power cables with extruded solid insulation from 6 kV up to 30 kV for fixed installations such as distribution networks or industrial installations.

7. GAMS IEC 60501-4:2010

ICS:29.060.20

Pages 66

Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2\text{kV}$) up to 30kV ($U_m = 36\text{kV}$) – Part 4: Test requirements on accessories for cables with rated voltages from 6 kV ($U_m = 7,2\text{ kV}$) up to 30 kV ($U_m = 36\text{ kV}$)

This part of GAMS IEC 60502 specifies the test requirements for type testing of accessories for power cables with rated voltages from 3,6/6 (7,2) kV up to 18/30 (36) kV, complying with IEC 60502-2.

8. GAMS IEC 60669-1:2007

ICS:29.120.40

Pages 97

Switches for household and similar fixed-electrical installations – Part 1: General requirements

This part of GAMS IEC 60669 applies to manually operated general purpose switches, for a.c. only with a rated voltage not exceeding 440 V and a rated current not exceeding 63 A, intended for household and similar fixed electrical installations, either indoors or outdoors.

9. GAMS IEC 60670-1:2002

ICS:29.120.10

Pages 58

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 1: General requirements

This part of GAMS IEC 60670 applies to boxes, enclosures and parts of enclosures (hereafter called “boxes” and “enclosures”) for electrical accessories with a rated voltage not exceeding 1000 V a.c. and 1500 V d.c. intended for household or similar fixed electrical installations, either indoors or outdoors.

10. GAMS IEC 60884-1:2006

ICS:29.120.30

Pages 134

Plugs and socket-outlets for household and similar purposes – Part 1: General requirements

This part of GAMS IEC 60884 applies to plugs and fixed or portable socket-outlets for a.c. only, with or without earthing contact, with a rated voltage greater than 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors.

11. GAMS IEC 60898-1:2015

ICS:29.120.50

Pages 147

Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation

This part of IEC 60898 applies to a.c. air-break circuit-breakers for operation at 50 Hz, 60 Hz or 50/60 Hz, having a rated voltage not exceeding 440 V (between phases), a rated current not exceeding 125 A and a rated short-circuit capacity not exceeding 25 000 A.

12. GAMS IEC 60898-2:2003

ICS:29.120.50

Pages 16

Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 2: Circuit-breakers for a.c. and d.c. operation – Amendment 1

This standard gives additional requirements for single- and two-pole circuit-breakers which, in addition to the above characteristics, are suitable for operation with direct current, and have a rated d.c. voltage not exceeding 220 V for single-pole and 440 V for two-pole circuit-breakers, a rated current not exceeding 125 A and a rated d.c. short-circuit capacity not exceeding 10 000 A.

13. GAMS IEC 61702:1995

ICS:27.160 Pages 12

Rating of direct coupled photovoltaic (PV) pumping systems

This National Standard defines predicted short-term characteristics (instantaneous and for a typical daily period) of direct coupled photovoltaic (PV) water pumping systems. It also defines minimum actual performance values to be obtained on-site. It does not address PV pumping systems with batteries.

14. GAMS IEC 61724:1998

ICS:27.160 Pages 21

Photovoltaic system performance monitoring – Guidelines for measurement, data exchange and analysis

This National Standard recommends procedures for the monitoring of energy-related PV system characteristics such as in-plane irradiance, array output, storage input and output and power conditioner input and output; and for the exchange and analysis of monitored data. The purpose of these procedures is to assess the overall performance of PV systems configured as stand-alone or utility grid-connected, or as hybridized with non-PV power sources such as engine generators and wind turbines.

15. GAMS IEC 61727:2004

ICS:27.160 Pages 26

Photovoltaic (PV) systems – Characteristics of the utility interface

This National Standard applies to utility-interconnected photovoltaic (PV) power systems operating in parallel with the utility and utilizing static (solid-state) non-islanding inverters for the conversion of DC to AC.

16. GAMS IEC 61960:2003

ICS:29.220.99 Pages 36

Secondary cells and batteries containing alkaline or other non-acid electrolytes –Secondary lithium cells and batteries for portable applications

This National Standard specifies performance tests, designations, markings, dimensions and other requirements for secondary lithium single cells and batteries for portable applications.

17. GAMS IEC 62093:2005

ICS:27.160 Pages 39

Balance-of-system components for photovoltaic systems – Design qualification natural environments

This National Standard establishes requirements for the design qualification of balance- of-system (BOS) components used in terrestrial photovoltaic (PV) systems. This standard is suitable for operation in indoor, conditioned or unconditioned; or outdoor in general open-air climates as defined in IEC 60721-2-1, protected or unprotected.

18. GAMS IEC 62109-1:2010

ICS:27.160 Pages 154

Safety of power converters for use in photovoltaic power systems – Part 1: General Requirements

This part of GAMS IEC 62109 applies to the power conversion equipment (PCE) for use in Photovoltaic (PV) systems where a uniform technical level with respect to safety is necessary.

19. GAMS IEC 62109-2:2011

ICS:27.160 Pages 68

Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters

This Part 2 of GAMS IEC 62109 covers the particular safety requirements relevant to d.c. to a.c. inverter products as well as products that have or perform inverter functions in addition to other functions, where the inverter is intended for use in photovoltaic power systems.

20. GAMS IEC 62124:2004

ICS:27.160 Pages 77

Photovoltaic (PV) stand-alone systems – Design verification

The specifications, test methods and procedures included in this document cover stand-alone photovoltaic (PV) systems. It covers systems containing one or more PV modules, a support structure, storage batterie(s), a charge controller and typical DC loads such as lights, radio, television and refrigerators. AC loads with dedicated inverters are considered as DC loads. The load as specified by the manufacturer is an integral part of the PV system with regards to the design verification.

21. GAMS IEC/TS 62257-1:2013

ICS:27.160 Pages 38

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 1: General introduction to IEC 62257 series and rural electrification

This part of IEC 62257 first introduces a methodology for implementing rural electrification using small autonomous hybrid renewable energy systems. Secondly it provides a guide for facilitating the reading and the use of the IEC 62257 series for setting up decentralized rural electrification in developing countries or in developed countries the only difference being the level of quality of service and the needed quantity of energy that the customer can afford.

22. GAMS IEC/TS 62257-2:2004

ICS:27.160;27.180 Pages 68

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 2: From requirements to a range of electrification systems

The scope of this part of the GAMS IEC 62257 series is to propose a methodological approach for the setting up and carrying out of socio-economic studies as part of the framework of decentralized rural electrification projects.

23. GAMS IEC/TS 62257-3:2004

ICS:27.160;27.180 Pages 50

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 3: Project development and management

This part of GAMS IEC 62257 provides information on the responsibilities involved in the implementation of rural power systems. In Clause 5, this technical specification presents contractual relationships to be built between the different participants to a project.

24. GAMS IEC/TS 62257-4:2005

ICS:27.160;27.180 Pages 74

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 4: System selection and design

This part of GAMS IEC 62257 provides a method for describing the results to be achieved by the electrification system independently of the technical solutions that could be implemented.

25. GAMS IEC/TS 62257-5:2005

ICS:27.160;27.180 Pages 38

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 5: Protection against electrical hazards

This standard describes Decentralized Rural Electrification Systems (DRES) that are designed to supply electric power for sites which are not connected to a large interconnected system, or a national grid, in order to meet basic needs.

26. GAMS IEC/TS 62257-6:2005

ICS:27.160;27.180 Pages 24

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 6: Acceptance, operation, maintenance and replacement

This technical specification is intended to describe the various rules to be applied for acceptance, operation, maintenance and replacement (AOMR) of decentralized rural electrification systems (DRES) which are designed to supply electric power for sites which are not connected to a large interconnected system, or a national grid, in order to meet basic needs.

27. GAMS IEC/TS 62257-7:2008

ICS:27.160;27.180 Pages 18

Recommendations for small renewable energy and hybrid systems for rural electrification – Part 7: Generators

The purpose of this part of GAMS IEC 62257 is to specify the general requirements for generators (maximum power = 100 kVA) in decentralized rural electrification systems.

28. GAMS IEC 62446:2009

ICS:27.160 Pages 54

Grid connected photovoltaic systems – Minimum requirements for system documentation, commissioning tests and inspection

This National Standard defines the minimal information and documentation required to be handed over to a customer following the installation of a grid connected PV system. This standard also describes the minimum commissioning tests, inspection criteria and documentation expected to verify the safe installation and correct operation of the system.

29. GAMS IEC 62509:2010

ICS:27.160 Pages 58

Battery charge controllers for photovoltaic systems – Performance and functioning

This National Standard establishes minimum requirements for the functioning and performance of battery charge controllers (BCC) used with lead acid batteries in terrestrial photovoltaic (PV) systems.

30. GAMS IEC/TS 62548:2013

ICS:27.160 Pages 64

Photovoltaic (PV) arrays – Design requirements

This Technical Specification sets out design requirements for photovoltaic (PV) arrays including d.c array wiring, electrical protection devices, switching and earthing provisions.

31. GAMS IEC/PAS 62111:1999

ICS:27.160 Pages 444

Specification for the use of Renewable Energies in Rural Decentralized Electrification

This Publicly Available Specification details all the requirements and specification needed to for the use of renewable energies in rural decentralized electrification projects.

32. GAMS IEC 60183:2015

ICS:29.060.20 Pages 15

Guidance for the selection of high-voltage A.C. cable systems

This National Standard is intended to give guidance in the selection of a.c high-voltage cables and cable systems with extruded insulation and mainly to be used on three-phase alternating systems operating at voltages exceeding $U = 1$ kV (in this standard the term 'high voltage' is used to cover any cable above 1 kV). Submarine cables are not included in the scope.

33. GAMS IEC 60335-1:2020

ICS:13.120;97.030 Pages 225

Household and similar electrical appliances – Safety – Part 1: General requirements

This National Standard deals with the safety of electrical appliances for household and similar purposes, their rated voltage being not more than 250 V for single-phase appliances and 480 V for other appliances including direct current (DC) supplied appliances and battery-operated appliances.

9. TRANSPORTATION STANDARDS

1. GAMS 25: 2020

ICS: 43.020 Pages 40

Gambian Standard on Vehicle Specification for Procurement

This national standard defines terms compliance technical specification relating to procurement of some type of road vehicle designated according to certain design and technical characteristics.

The terms technical compliance specification does not take into account whether the vehicles and certain combination are authorized or not in a given county.

10. WATER AND SANITATION

1. GAMS CODEX STAN 227-2001

ICS : 13.060.20 Pages 11

Gambian Standard for bottled- packaged Drinking water (Draft)

This Standard applies to waters for drinking purposes other than Natural 100 Mineral Waters, as defined in the Revised Codex Standard 101 CODEX STAN 108-1981 Amended in 2001, 2011, 2019., that are 102 pre-packaged/bottled1 and are suitable for human consumption.
